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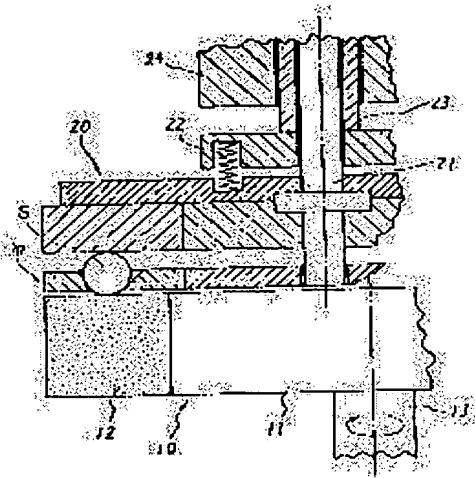
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(54) SPHERE MACHINING DEVICE

(57) Abstract:

PURPOSE: To efficiently machine a plurality of spheres, by disposing a guide plate for supporting a plurality of workpieces between a lap plate formed of a grind stone and a pressing plate urged by a spring and being concentric with the guide plate, and by rotating the lap plate and the pressing plate, eccentrically from each other.

CONSTITUTION: A guide plate 30 is disposed between the pressing surfaces of both lap plate 10 and pressing plate 20 in a sphere machining device, which are opposed to each other in parallel together. This lap plate 10 is composed of a support part 11 and an annular grind stone 12. A rotary shaft 13 is attached perpendicularly to the support member 11. The pressing plate 20 is positioned eccentric from the lap plate 10, and a cylindrical pressing shaft 23 for pressing the pressing plate 20 through a spring member 22 is provided surrounding around a retractable shaft 21 which is attached to the center of the pressing plate 20. The machining of ceramic spheres is such that the workpieces S are disposed in piercing holes in the guide plate 30 which is then attached onto the front end of the retractable shaft 21. Then the shaft 21 is advanced and therefore, the workpieces S are clamped between the grind stone 12 and the pressing plate 20 for application of load. Then, by rotating the lap plate 10, substantially true spheres may be obtained.



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